



2021 National Conference on Energy Efficiency as a Resource Virtual

October 19–21 and October 26–27

(All times are listed in Eastern time.)

PROGRAM

Tuesday, October 19

12:00 – 12:45 pm

Welcome and Keynote
Energy Efficiency in a Transforming Utilities World

Welcome and Keynote Address

Welcome: **Dan York**, American Council for an Energy-Efficient Economy

Moderator: **Steve Nadel**, American Council for an Energy-Efficient Economy

Keynote Topic: Energy Efficiency in a Transforming Utilities World

Keynote Presenter: **The Honorable Tina Smith**, U.S. Senator for Minnesota

12:45 – 1:00 pm

Break

1:00 – 2:00 pm

Opening Plenary

Regional Roundup: Utility Energy Efficiency Highlights from around the United States – Recent Accomplishments and Visions for the Future in Energy Efficiency

Moderator: **Rachel Gold**, American Council for an Energy-Efficient Economy

Presenters: **Serj Berelson**, California Efficiency + Demand Management Council
Elise Jones, Southwest Energy Efficiency Project
Kelly Herbert, South-Central Partnership for Energy Efficiency as a Resource
Stacey Paradis, Midwest Energy Efficiency Alliance
Arah Schuur, Northeast Energy Efficiency Partnerships
Aimee Skrzekut, Southeast Energy Efficiency Alliance
Susan Stratton, Northwest Energy Efficiency Alliance

2:00 – 2:15 pm

Break

1A: Commercial Programs*Programs Track*

Commercial energy efficiency programs are incorporating new technologies and program designs to serve more customers and improve program delivery. Such program innovations include virtual engagement, electrification options, and advanced lighting technologies. In this session, learn how selected programs are incorporating these innovations and advances to achieve higher energy savings and improve the customer experience.

Moderator: **Jennifer Rosenthal**, TRC

Energy Efficiency and Electrification: Untapped Potential in the Small Business Sector

Presenter: **Emily Kubiak**, Sustainable Connections

Technology Leapfrog: How Slower LED Adoption Creates an Opportunity to Maximize Savings Now

Presenter: **Jes Rivas**, ILLUME Advising

Driving Energy Savings, Improving Customer Experience and Optimizing Portfolio Flexibility with Virtual Commissioning

Presenter: **Rick Tonielli**, ComEd

1B: Adapting Utility Energy Efficiency to Climate Commitments in State Policy*Policies Track*

Utilities and states around the country are setting ambitious climate commitments. While energy efficiency must be a crucial component of meeting those goals, most regulations and state programs are not set up to optimize for greenhouse gas reductions or to scale to meet this challenge. In this session, hear about emerging state and utility actions to adapt energy efficiency programs to climate-forward efficiency.

Moderator: **Emily Levin**, VEIC

Meeting State Climate Goals: Energy Efficiency Will Be Critical

Presenter: **Weston Berg**, American Council for an Energy-Efficient Economy

Rethinking Utility Energy Efficiency and Demand Response Programs as Carbon Resources

Presenter: **Mike Shuster**, Institute for Electric Innovation

Aligning California's Energy Efficiency Goals with Both Energy System and Climate Policy Needs

Presenter: **Mohit Chhabra**, Natural Resources Defense Council

1C: End-Use Load Shapes in Energy Efficiency Program Planning and Development*Planning Track*

End-use load and energy savings load profiles are core tools for treating energy efficiency as a resource. They are important elements for utility resource, transmission, and distribution system planning; state and local energy scenario planning and regulation; and program development. Hear about efforts to develop publicly available databases of end-use load profiles in regional, national, and international contexts.

Moderator: **Mike Specian**, American Council for an Energy-Efficient Economy

Planning the Future with Energy-Use Insight before, during, and after the Pandemic: The Northwest End-Use Load Research (EULR) Project

Presenter: **David Clement**, Northwest Energy Efficiency Alliance

End-Use Load Profiles: A New Public Dataset for U.S. Residential and Commercial Buildings

Presenter: **Eric Wilson**, National Renewable Energy Laboratory

Load Profiles for Integrated Resource Planning: Understanding How and When Energy Is Used

Presenter: **Alex Tiessen**, Posterity Group

3:15 – 3:35 pm

Chat Rooms on information shared in above sessions

3:35 – 3:45 pm

Break

3:45 – 4:45 pm

Concurrent Sessions

2A: Industrial Customer Programs

Programs Track

Industrial customers typically offer large savings potential from increasing energy efficiency within their plants and operations. Achieving such potential and serving these customers are challenging due to their unique characteristics and needs. The presentations in this session demonstrate successful ways of working with industrial customers; these include data-driven continual improvement processes, application of the ISO 50001 energy management framework, and using an industrial market approach.

Moderator: **Ed Rightor**, American Council for an Energy-Efficient Economy

Outside the Box Energy Efficiency

Presenter: **Jason Strano**, Eversource

Carbon Management Requires Energy Management

Presenter: **Peter Therkelsen**, Lawrence Berkeley National Laboratory

Best Program Cost Effectiveness by Mastering the Industrial Market Approach

Presenter: **John Nicol**, Leidos

2B: Local Policies for Achieving GHG Goals

Policies Track

One in three people in the United States now live in a state or city with announced goals to transition to 100% clean electricity, and some jurisdictions are reaching beyond to economy-wide climate commitments. Panelists from leading states and cities will discuss recent scenario planning analysis to consider how energy efficiency and electrification programs and policies can support these goals, as well as actions taken to evolve performance benchmarks to reflect greenhouse gas reductions.

Moderator: **Andrea Denny**, U.S. Environmental Protection Agency

New Mexico's Financial Resiliency through Energy Efficiency Project

Presenter: **Alyssa Latuchie**, NM Energy, Minerals, and Natural Resources Department

Energy Efficiency: A Cornerstone for Decarbonizing the City of New York

Presenter: **William Prindle**, ICF

DCSEU's Evolution to GHG Metrics and Building Decarbonization

Presenter: **Patti Boyd**, VEIC/DCSEU

2C: Time Value of Energy Efficiency

Planning Track

Energy efficiency has a differing value to the grid at different times. The increasing share of renewable, intermittent resources on the electricity grid has enhanced the importance of this subject. Accounting for this variability is becoming a critical issue for resource planning, rate design, and determining appropriate energy efficiency incentives and services. In this session, learn about the latest efforts to quantify the time value of efficiency and how analysts and program administrators are addressing this issue.

Moderator: **Steve Fine**, ICF

Time to Save: The Added Value of Accounting for Hourly Incidence of Electricity Savings from Residential Space-Conditioning Measures PLUS the Time Sensitive Value of Energy Efficiency Calculator

Presenter: **Sean Murphy**, Lawrence Berkeley National Laboratory

Adding Load Flexibility Value with ENERGY STAR Connected

Presenter: **Abigail Daken**, U.S. Environmental Protection Agency

Emerging Options and Challenges for Determining the Time Value of Energy Efficiency

Presenter: **Jeremy Petersen**, Xcel Energy

4:45 – 5:05 pm

Chat Rooms on information shared in above sessions

Wednesday, October 20 – Half-day workshops

An offering of four half-day workshops to choose from. Although you can participate in as many of these as you like, we do ask that you preregister for them in advance when you register for the conference.

11:00 am – 2:00 pm

Measuring and Tracking Equity Progress: Equity-Focused Metrics and Lessons Learned

Workshop Facilitators: **Ariel Drehobl** and **Amanda Dewey**, American Council for an Energy-Efficient Economy

ACEEE launched our Leading with Equity Initiative with the goal of defining and driving equitable energy efficiency policy and programs at the state, local, and utility levels. Through a collaborative engagement process with utilities, policymakers, and community leaders, we worked to identify and advance metrics that capture progress toward the deployment of innovative and robust energy efficiency policies and programs that center on equity.

In this workshop, we will leverage the main findings of this initiative to explore equity-driven metrics that utilities, state, and local governments and other decision makers can use to measure progress on clean energy outcomes. We will start by exploring definitions and examples of equity in the clean energy sector and then examine the landscape of metrics developed by the Leading with Equity Initiative participants. Participants will learn from peer examples of utilities who are using equity-driven metrics in their work, with presentations from **VEIC/Efficiency Vermont, National Grid, and Puget Sound Energy**. Finally, participants will apply workshop information to their own context, leaving with metrics and a path forward for measuring progress on equity at their organization.

Presenters: **Ruth Georges**, Eversource
Amanda Formica, National Grid
Lauren Wentz, Efficiency Vermont
Diann Strom, Puget Sound Energy

Objectives:

1. Gain a foundational understanding of the importance of equitable clean energy policies, programs, and outcomes
2. Explore the landscape of metrics currently used to measure and track progress on equity
3. Learn from utility, state, and local case study examples of equity metrics in practice
4. Identify metrics and develop a path forward for prioritizing and measuring equity in context

11:00 am – 2:00 pm

**Incorporating Grid-Interactive Efficient Building (GEB)
into Your Energy Efficiency Programs**

Workshop Facilitators: **Hannah Bastian** and **Dan York**, American Council for an Energy-Efficient Economy

Grid-interactive efficient buildings, or GEBs, can help a utility manage electrical loads to ensure a stable, secure grid. Join us for this GEB workshop, where ACEEE will present findings from its work with utilities and program administrators on creating GEB programs, followed by workshop sessions to brainstorm how to transform traditional energy efficiency programs to incorporate GEB aspects. This session will consider many different aspects from designing optimal rates for GEBs to creating the most impactful program structure to marketing GEB benefits to consumers.

Objectives:

1. Learn about examples of efficiency programs with GEB aspects
2. Explore methods to integrate grid flexibility into traditional energy efficiency programs.
3. Evaluate how to overcome GEB program barriers like outdated rate design, lack of customer engagement, and others

2:30 – 5:00 pm

**Incorporating Health into Residential Energy Efficiency
Program Design**

Workshop Facilitators: **Sara Hayes** and **Christine Gerbode**, American Council for an Energy-Efficient Economy

This interactive workshop will provide resources and actionable guidance to participants looking to incorporate health into their energy efficiency programs. We will explore topics such as adding health services complementary to weatherization, pursuing health-related funding, measuring and communicating health impacts, and building relationships to help programs accomplish these things.

Objectives:

1. Understand opportunities to incorporate health into residential energy efficiency programs
2. Develop a plan to take concrete steps toward their program's goals at this nexus
3. Meet peers with whom they can brainstorm, build relationships, and troubleshoot common challenges

2:30– 5:00 pm

Preparing a Resilient and Inclusive Energy Efficiency Workforce

Workshop Facilitators: **Roxana Ayala**, **Bryan Howard**, and **Lauren Ross**, American Council for an Energy-Efficient Economy

In this workshop, we will explore opportunities to prepare a robust and diverse energy efficiency workforce. We will start by exploring inequities in the energy efficiency workforce and examining approaches to creating high-quality jobs in this sector for underrepresented workers. We will then hear from Elevate Energy, Eversource, National Grid, and the Greater Lawrence Technical High School about their inclusive workforce development programs. Finally, participants will apply lessons learned from these models to their own circumstances, defining concrete next steps for making their local workforce more equitable. We will identify tangible strategies to help the energy efficiency industry better reflect the communities it serves.

Presenters: **Ruth Georges**, Eversource
Amanda Formica, National Grid
Susan Almono, Greater Lawrence Technical High School
Delmar Gillus, Elevate

Objectives:

1. Understand equitable energy efficiency workforce development opportunities
2. Gain exposure to successful education and training programs
3. Define personalized strategies for making the energy efficiency workforce more inclusive

Thursday, October 21

12:00 – 1:15 pm Energy Equity: Keynote and Plenary Panel Discussion

Welcome and Introductions: **Lauren Ross**, American Council for an Energy-Efficient Economy

Keynote Address: **Shalanda H. Baker**, Secretarial Advisor on Equity, Deputy Director for Energy Justice, Office of Economic Impact and Diversity, U.S. Department of Energy

Energy Equity Panel Discussion

Moderator: **Lauren Ross**, American Council for an Energy-Efficient Economy

Panelists: **Crystal Pruitt**, Deputy Director, Office of Clean Energy Equity, New Jersey Board of Public Utilities
Carla Walker-Miller, Founder and CEO, Walker-Miller Energy Services
E’Lois Thomas, Chief Administrative Officer, SEEL, LLC

1:15 – 1:30 pm Break

1:30 – 2:30 pm Concurrent Sessions

3A: Low-Income Energy Efficiency Programs

Programs Track

Energy efficiency programs serving low-income customers have long been recognized for their value in reducing high energy burdens faced by many of these households. Such programs are vital for addressing energy equity as well as health, safety, and comfort. Presenters in this session will address key current issues in low-income program design and delivery, including metrics to track program performance, partnerships for scaling up programs, and maintaining program services during the pandemic.

Moderator: **Ariel Drehabl**, American Council for an Energy-Efficient Economy

The Power of Partnerships: How TVA is Reshaping the Energy Assistance Paradigm – Addressing Energy Affordability, Health, and Resilience: Leveraging Research to Create a Sustainable and Scalable Low-Income Energy Efficiency Program

Presenter: **Frank Rapley**, TVA

Serving the Underserved: Ways Efficiency Is Helping Residents and Businesses Struggle to Survive the Pandemic

Presenter: **Caroline Carl**, Hawaii Energy - Leidos

An Income-Qualified Energy Efficiency Program 73K Customers Later?

Presenter: **Sarah Poe**, Columbia Gas of Ohio

3B: Workforce Development

Policies Track

The transition underway to a low-carbon economy requires a skilled workforce. To achieve high energy savings in buildings requires well qualified and trained workers for implementing energy efficiency solutions. Advanced energy technologies create new opportunities for high building performance, but also require that building designers, contractors, operators, and program providers gain new skills and expertise for applying these technologies. Panelists will discuss and provide examples of workforce development and training to meet this growing need.

Moderator: **Roxana Ayala**, American Council for an Energy-Efficient Economy

We Can Work It Out: Workforce Development to Advance the Energy Efficiency Market

Presenter: **Matthew Evans**, Julius

Growing the Pipeline of Qualified Workers for Energy-Efficient Buildings

Presenter: **Joe Sarubbi**, Interstate Renewables Energy Council

Doing Double Duty: How Heat Pump Workforce Development and Training Can Drive Energy and Carbon Reductions while Spurring Economic Recovery

Presenter: **Jen Loomis**, Opinion Dynamics

3C: Meeting High Energy Efficiency Goals

Planning Track

A growing number of states, utilities, corporations, and local governments are setting high goals for energy efficiency savings. Presentations in this session will show how energy efficiency continues to be a least cost resource, what technologies are likely to play prominent roles in future program portfolios, and how emerging technologies can be incorporated into research and analysis of energy efficiency potential.

Moderator: **John Karyczak**, Avangrid

One Transformational Path to the Future of Energy Efficiency

Presenter: **Joe Forcillo**, Consumers Energy

Efficiency Programs in a Post-Lighting World: Where to Next?

Presenter: **Nick Martin**, Dunsy Energy + Climate Advisors

Cost of Saving Electricity: A Decade of Performance

Presenter: **Chandler Miller**, Lawrence Berkeley National Laboratory

2:30 – 2:50 pm

Chat Rooms on information shared in above sessions

2:50 – 3:00 pm

Break

3:00 – 4:30 pm

Hot Topic Panel

HOT TOPIC Panel – Regulatory and Policy Innovations Regarding Energy Efficiency and Climate Objectives

State public utilities commissions around the country are taking stock of their energy efficiency policies to ensure that they are delivering on local climate, equity, and reliability commitments. Some face new mandates to ensure that decisions take climate and equity into account, and others are recognizing barriers to deployment of low-carbon resources from legacy policies. Panelists will discuss recent policy and regulatory innovations in goal setting, utility business models, market transformation, cost-effectiveness rules, and fuel-switching policies that align and scale energy efficiency as a tool to meet climate commitments. They will highlight what is innovative about selected recent policies along with lessons learned in their development and results to date.

Moderator: **Dan Violette**, Apex Analytics

Panelists: **Lara Ettenson**, Natural Resources Defense Council
Jamie Fitzke, Center for Energy and Environment
Kate Johnson, Department of Energy & Environment, Government of the District of Columbia
Karen Reif, PSE&G
Doug Scott, Great Plains Institute for Sustainable Development

3:00 – 4:00 pm

Concurrent Sessions

4A: Multifamily Energy Efficiency Programs

Programs Track

While a large share of households lives in some type of multifamily housing, serving these customers through energy efficiency programs is especially challenging. As a result, there remains a large unrealized savings potential from multifamily buildings in many areas. In this session, hear how programs are engaging customers to improve program designs and performance. Also learn about program approaches to achieve high savings in multifamily buildings by targeting common areas and other frequently missed opportunities.

Moderator: **Lee Smith**, Daikin US

Tackling Missed Savings Opportunities in Multifamily Properties

Presenter: **Kate Tanabe**, American Council for an Energy-Efficient Economy

PG&E's Low Income Multifamily EE Program: Energy Savings Assistance Common Area Measures

Presenter: **Marissa Van Sant**, TRC

All in the Family: Engaging Multifamily Communities in Energy Efficiency Programs

Presenter: **Steve Hernandez**, DNV

4B: Utility Energy Efficiency and Climate Goals: Technical Issues

Policies Track

Transforming utility regulation and energy efficiency practices to optimize for GHG will require reevaluation of practices in a number of key areas, including goal/target development, cost-effectiveness analysis and valuation, and program design. Join this session to hear from presenters tackling the technical details of reforms to each of these areas, with particular focus on building efficiency and decarbonization.

Moderator: **David Tancabel**, U.S. Environmental Protection Agency

Aligning Energy Efficiency Benefit-Cost Analysis with State Climate Policy

Presenter: **Matt Rusteika**, Acadia Center

Energy Efficiency at a Crossroads

Presenter: **Alan Zelenka**, Oregon Department of Energy

Size versus Substance: Shifting Our Focus on Energy Efficiency Targets

Presenter: **Leslie Malone**, Dunsky Energy + Climate Advisors

4:00 – 4:20 pm

Chat Rooms on information shared in above sessions
(does not include hot topic panel)

TUESDAY, OCTOBER 26

12:00 – 1:15 pm

Plenary Panel: The Gap between State Climate Goals
and Current Trajectory for Decarbonization
and Energy Efficiency Savings

The Gap between State Climate Goals and Current Trajectory for Decarbonization and Energy Efficiency Savings

Moderator: **William Prindle**, Vice President, ICF

Panelists: **David Althoff Jr.**, Director, Energy Programs Office at Pennsylvania Department of Environmental Protection

Glenn Blackmon, Manager, Energy Policy Office, Washington Department of Commerce – State Energy Office

Jennifer McClellan, Virginia State Senator (District 9)

Elizabeth Kelly, New York City Office of Sustainability

1:30 – 1:45 pm

Break

1:45 – 2:45 pm

Concurrent Sessions

5A: Energy Efficiency and Net-Zero Buildings in New Construction

Programs Track

Advances in building design, technologies, and construction practices have combined to make low/net-zero energy buildings not only possible, but both practical and cost effective for new construction. Electrification is becoming a complementary objective to reduce carbon emissions, which is most readily addressed in new construction compared to building retrofits. Presenters in this session will share experiences in developing and implementing policies and programs for constructing low/net-zero energy, all-electric homes.

Moderator: **Arlis Reynolds**, Opinion Dynamics

Driving and Sustaining Innovation on the Path to Net Zero

Presenter: **Elin Shepard**, Energy Trust of Oregon

Bringing High Performance Electric Homes to All Customers: An Overview of Consumers Energy – NRDC Collaboration in Kalamazoo

Presenter: **Sheryl Tembe**, ICF

A Utility New Construction Energy Efficiency Program That Targets Zero Energy

Presenter: **Jillian Winterkorn**, Eversource

5B: Heat Pumps and Associated Building Retrofits

Programs Track

Heat pump technology offers vast opportunity for decarbonization, building on recent improvements in the performance of electric and thermal (gas or eventually RNG) technologies, even in cold climates. Panelists will explore how envelope improvements and distributed energy resources (e.g., solar, batteries) can complement electrification strategies, and will explore what role thermal heat pumps can play in decarbonization. They will share insights from modeling exercises, pilot projects, and market transformation efforts.

Moderator: **Andy Frank**, Sealed

High Performance Envelope Upgrades: An Essential Efficiency Measure for Cold Climate Electrification

Presenter: **Josh Quinnell**, CEE

Fourteen Gas Utilities' Strategic Collaboration for Affordable Decarbonization

Presenter: **Jim Jerozal**, Nicor Gas

The Role of Distributed Energy Resources (DERs) in a Community-Wide Efficient Electrification Retrofit

Presenter: **Lieko Earle**, National Renewable Energy Laboratory

5C: Multiple Benefits of Energy Efficiency

Planning Track

While the multiple benefits of improved energy efficiency in our homes and other buildings have long been recognized, efforts to quantify and place a value on these non-energy benefits are difficult and face many regulatory and practical challenges. Presenters in this session will provide recent examples of valuing non-energy benefits for program planning and cost-effectiveness testing. Doing so not only more accurately portrays the value of energy efficiency, but it also can help support expanded programs and funding to achieve high savings.

Moderator: **Cassandra Kubes**, U.S. Environmental Protection Agency

Societal NEBs in Cost-Effectiveness Testing

Presenter: **Julie Michals**, E4TheFuture

Quantifying Reliability and Resilience Impacts of Energy Efficiency: Examples and Opportunities

Presenter: **Juan Pablo Carvallo**, Lawrence Berkeley National Laboratory

NEBulous No More! Real Valuation of Non-Energy Benefits

Presenter: **Jimmy Lu**, IESO

2:45 – 3:05 pm

Chat Rooms on information shared in above sessions

3:05 – 3:15 pm

Break

3:15 – 4:15 pm

Hot Topic Panel

HOT TOPIC Panel – Establishing a Productive Role for Natural Gas in Decarbonization

Most state efforts at developing climate and decarbonization goals have focused on electric utilities and strategies such as renewable energy and electrification. What little attention has focused on natural gas utilities has tended to be perceived as adversarial (e.g., restricting natural gas access in new construction, converting existing gas uses to electricity). However, given the extensive use of natural gas across our economy, there remains tremendous potential for near-term, cost-effective reductions in GHG emissions through energy efficiency. Natural gas utilities can play a vital role in achieving GHG reductions during the critically important next decade, and in facilitating a longer-term transition. In this panel, you will hear from three states that have developed policies to involve natural gas utilities as positive contributors to climate and GHG reduction goals.

Moderator: **Steve Nadel**, American Council for an Energy-Efficient Economy

Panelists: **Chris Hansen**, State Senator for Colorado, Senate District 31

Erica Larson, CenterPoint Energy

Mike Henchen, Rocky Mountain Institute

3:15 – 4:15 pm

Concurrent Sessions

6A: Energy Efficiency Programs for Government Facilities

Programs Track

Government facilities and infrastructure comprise a large customer sector for energy utilities and typically may have large energy savings opportunities from energy-efficient upgrades. They may similarly present attractive opportunities for other distributed energy resources, such as demand response, storage, and on-site renewable generation. Panelists in this session will show how energy savings and related environmental and DER goals can be met using innovative program approaches and performance contracting, as well as targeting high efficiency technologies.

Moderator: **Drew Scatizzi**, TRC

Upgrading Streetlights in Distressed Communities

Presenter: **Ashley Harrington**, ComEd

UnDERstanding New Technologies for Public Agencies

Presenter: **Bryan Iwamoto**, The Energy Coalition

Utilizing Federal Energy Performance Contracts to Meet Energy Goals

Presenter: **Jeff Gingrich**, National Renewable Energy Laboratory

6C: Energy Efficiency as a Peak Demand Resource

Planning Track

Energy-efficient technologies have varying impacts on peak demand. Some can be particularly effective at reducing power needs during peak demand periods. Such reductions can provide much-needed grid relief at times when grid resources and power markets are stretched. Electrification initiatives will increase peak power demand in many regions. In this session, presenters will examine these trends and how energy efficiency can be an effective solution to meet growing peak demand.

Moderator: **Kessie Avseikova**, Opinion Dynamics

Energy Efficiency Auction Pilot Highlights Energy Efficiency as a Low-Cost Resource to Meet System Needs

Presenter: **Katelyn Margerm**, IESO

Getting Ready to Grow Winter Peaks: What Is the Role of Energy Efficiency to Offset Demand Impacts?

Presenter: **Alex Hill**, Dunsky Energy + Climate Advisors

Demand-Side Solutions to Winter Peaks and Constraints

Presenter: **Mike Specian**, American Council for an Energy-Efficient Economy

4:15 – 4:35 pm

Chat Rooms on information shared in above concurrent sessions

(does not include hot topic panel)

WEDNESDAY, OCTOBER 27

12:30 – 1:30 pm

Concurrent Sessions

7A: Residential Energy Efficiency Programs

Programs Track

Capturing efficiency savings in the residential sector has become more challenging with the decline in lighting savings potential. Yet existing residential buildings still comprise a large potential for energy savings through improvements and upgrades to building envelopes and both mechanical and electrical equipment and systems. In this session, learn how new tools can be used to improve delivery and targeting of residential upgrades to achieve high energy savings for space heating and cooling. Also hear how one city program is preserving affordable housing through co-funding and partnerships.

Moderator: **Ian Maddock**, My Heat

CAP the Attic: How Utilities Can Partner with DOE to Promote Cost-Effective Home Attic Upgrades

Presenter: **Holly Jamesen Carr**, U.S. Department of Energy

Using Home Energy Monitoring Technology to Assess Residential Air Conditioning

Presenter: **George Zavaliagos**, Sense

Co-Funding Energy Efficiency to Preserve Affordable Rental Housing in Minneapolis

Presenter: **Rebecca Olson**, Center for Energy and Environment

7B: Integrated Energy Efficiency and Distributed Energy Resource Programs

Programs Track

The benefits and value of integrated programs for energy efficiency and other distributed energy resources, such as demand response, have long been recognized. Despite these benefits, there still are few such integrated programs. In this session, hear about efforts and experiences with building the markets for and applications of integrated distributed energy resources. The examples included are connected homes, connected communities, and federal grid-interactive efficient buildings.

Moderator: **Ryohei Hinokuma**, Daikin

CEE Integrated Home Initiative: A Connected, Interactive, Efficient Vision

Presenter: **Patrick Casper**, CEE

Carbon-Neutral, Affordable, Resilient, and Equitable Community (CARE Community)

Presenter: **Phil Markham**, Southern Company

Roadmap to Grid Interactive Efficient Buildings (GEBs) in the Federal Buildings Portfolio

Presenter: **Kinga Hydras**, GSA

7C: Energy Efficiency and Planning for the Modern Grid

Planning Track

The grid is undergoing a fundamental transformation due to rapid technological advances in how electricity is generated, distributed, and used. Smart, connect, and interactive technologies enable flexible loads. Distributed energy resources provide decentralized, intermittent generation. In this session, learn how energy efficiency will continue to be an integral and vital resource in the modern grid for system planning and operation as system load characteristics and supply options transform.

Moderator: **Molly Podolefsky**, Guidehouse

Increasing the Economic Potential of Residential Energy Efficiency as a Utility Grid Resource

Presenter: **Andy Satchwell**, Lawrence Berkeley National Laboratory

Energy Efficiency Supply Curves: Practical Lessons Learned

Presenter: **Natalie Mims Frick**, Lawrence Berkeley National Laboratory

Utilizing Energy Efficiency Resources for Enhanced System Planning

Presenter: **Nicholas Wyatt**, Eversource

1:30 – 1:50 pm

Chat Rooms on information shared in above sessions

1:50 – 2:00 pm

Break

2:00 – 3:00 pm

Concurrent Sessions

Lightning Round: Innovative Products and Services for Energy Efficiency

Today's energy efficiency programs are taking new approaches and employing new technologies to improve services for customers and achieve higher energy savings. This fast-paced session offers a potpourri of both technology and program innovations that create new opportunities for energy efficiency as both a customer and grid resource.

Moderator: **Dan York**, American Council for an Energy-Efficient Economy

Seeing the Light: Transforming the Adoption of High Performance, Triple Pane Windows

Presenter: **Enoch Lenge**, Eversource

Codes and Standards Energy Efficiency Programs: Highlights from a Minnesota Roadmap Project

Presenter: **Alex Chase**, 2050 Partners

Refrigerant Management and Path from kWh to GHG

Presenter: **Ali White**, VEIC

Building Big: How the Southwest's New Construction Boom Is Driving Energy Efficiency Program Success

Presenter: **Paul Geary**, DNV

Building Envelope and the Net-Zero Future

Presenter: **Lucy Albin**, D+R International

Making the Most of Your Program: How Marketing Tests Can Encourage Homeowners to Go All-In on Electrification

Presenter: **Augusta Miller**, Sealed

ComEd's Fix-It-Now Compressed Air for Industrial Customers

Presenter: **Tom Johanson**, ComEd

8B: Innovative Approaches for Acquiring Energy Efficiency

Policies Track

Incentive-based methods for driving uptake of energy efficiency investment are a tried-and-true utility program strategy. This panel will explore three innovative approaches to address first cost challenges and barriers to efficiency as a utility system resource: metered EE transaction structures, which treat energy efficiency like a solar power purchase agreement (PPA); a technical assistance-focused metered savings program for public agencies; and a utility-public-private partnership to leverage ratepayer funds to offer loan-loss reserves and interest rate buy-downs.

Moderator: **James Henry**, My Heat

MEETS: Meeting Aggressive Resource Goals for Efficiency without Incentives

Presenter: **Rob Harmon**, MEETS Coalition

The SoCalREN Metered Savings Program – Created for Public Agencies, by Public Agencies

Presenter: **Lauren Seymour**, The Energy Coalition

Financing the Future of Energy Efficiency

Presenter: **Kaylee D'Amico**, California Alternative Energy and Advanced Transportation Financing Authority (CAEATFA)

8C: Innovative EM&V Techniques

Planning Track

As energy efficiency programs establish new types of goals and integrate other distributed energy resources, evaluators are tasked with developing and applying new tools and techniques for estimating and assessing program impacts relative to such goals. Presenters in this session address these new and emerging challenges for program evaluation. Hear how evaluators are approaching decarbonization, use of AMI data, and integrated DER programs.

Moderator: **Karen Maoz**, Guidehouse

Advanced M&V (M&V2.0) – Data and Metrics for Integrating Decarbonization Policies into Utility Efficiency Programs

Presenter: **Erin Cosgrove**, Northeast Energy Efficiency Partnerships

Leveraging AMI to Strengthen Stakeholder Confidence in the Resource Value of Efficiency

Presenter: **Angel Moreno**, Frontier Energy

Accounting for Interactive Effects: Assessing the Cost-Effectiveness of Integrated Distributed Energy Resources

Presenter: **Courtney Lane**, Synapse Energy Economics

3:00 – 3:20 pm

Chat Rooms on information shared in above sessions

3:30 – 4:30 pm

**Closing Plenary Session: Getting Energy Efficiency
to Scale: Breakthroughs and Breakouts**

Getting Energy Efficiency to Scale: Breakthroughs and Breakouts

Moderator: **Gene Rodrigues**, Vice President, ICF

Panelists: **Andy Frank**, Founder and President, Sealed
Lisa Wood, Vice President, Customer Solutions, Edison Electric Institute
Chris Duffrin, President, Center for Energy and Environment
Bill LeBlanc, Chief Instigation Agent, E Source